Wireless LAN Services

As indoor wireless access becomes increasingly necessary in the workplace, DC-Net helps you s meet your agency's needs for wireless services. DC-Net offers the wireless extension of data circuits through both secure and public access. We also customize wireless access point (WAP) installation and management based on agency needs and site size and type.

By leveraging state-of-the-art Cisco technology and supporting standards-based unlicensed frequencies (802.11 a/b/g/n), DC-Net wireless LAN.
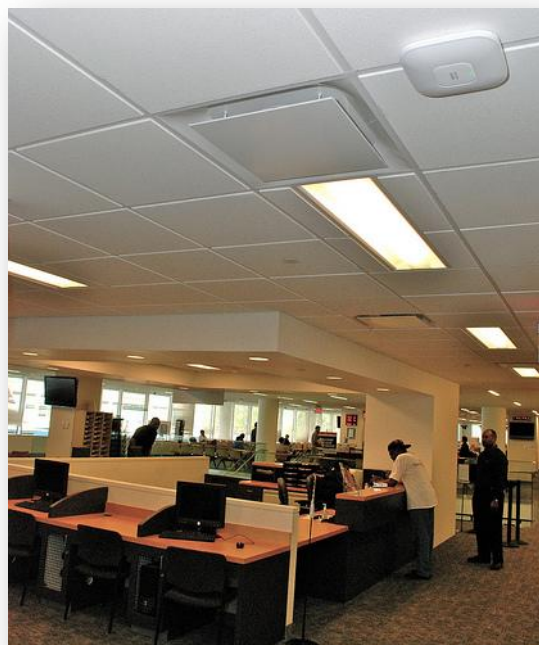
Benefits

Meeting the growing demand for mobility and increased collaboration, DC-Net helps workers operate more effectively throughout the office environment, whether this is using a laptop in a wireless conference room or working remotely as a "visitor" at another agency.

This service is particularly useful at locations with a predominant number of mobile workers or other users, such as public safety sites, health care facilities, warehouses, job training centers, and educational institutions and campuses.

DC-Net wireless infrastructure is an extension of the enterprise network, thus enabling a range of wireless applications environments:

**Indoor wireless access point deployment
at the Southwest Waterfront**

- Wireless LAN connectivity for laptop and other wireless device users
- Wireless VoIP for in-building wireless phones (Cisco 7925G and others) over the WLAN
- Location tracking for personnel and assets
- Public WiFi hotspots
- Point of sale applications
- Complement to bar code scanners in warehouse
- OfficeAnywhere – Optimal for disaster recovery scenarios, pre-provisioned WAP extends internal network access over an existing Internet connection from anywhere.

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Technology

Wireless Access Points (WAPs) provide a standards-based extension of the existing data circuit, supporting both authenticated (Secure) and public (DCFree-WiFi) SSIDs. These connections are completely separate. Workers use the secure connection to access the network; authentication is tied to existing user credentials. Visitors use DCFree-WiFi to access the Internet.

DC-Net uses Cisco Aironet 1140 and 1250 internal WAPs which provide a range of approximately one WAP per 3000 square feet (or about 12 users) in most structures. These devices support 802.11 a/b/g/n Wi-Fi standards. The Aironet 1250 is used in hardened facilities. Bandwidth is negotiated at whatever the user device supports, with theoretical speeds up to 11 Mbps for 802.11 b, 54 Mbps for 802.11 a/g, and 350 Mbps for 802.11 n.

Installation and Management

When you order wireless access point service from DC-Net all aspects of implementation and management are covered. DC-Net's experienced Radio Frequency Engineering team designs, configures, installs, and manages the network wireless infrastructure. Depending on a site's size and customization, DC-Net either manages access points remotely from on-site equipment or through its enterprise core infrastructure.

The DC-Net management infrastructure uses Cisco unified wireless controllers. These controllers support intrusion detection and rogue WAP detection as well as custom usage reporting.

Pricing includes a non-recurring cost for each WAP, along with a modest monthly recurring cost for management of the WAP and its supporting infrastructure.

Future Applications

DC-Net is positioned to support and deliver wireless applications as they become available and are requested by agencies. These include the deployment of dual-band phones that switch seamlessly between cellular and DC-Net network depending on signal strength as well as support for "Smart Building" applications. If your agency has special wireless application requirements or other customized needs, we can help. Please contact DC-Net Customer Care today.